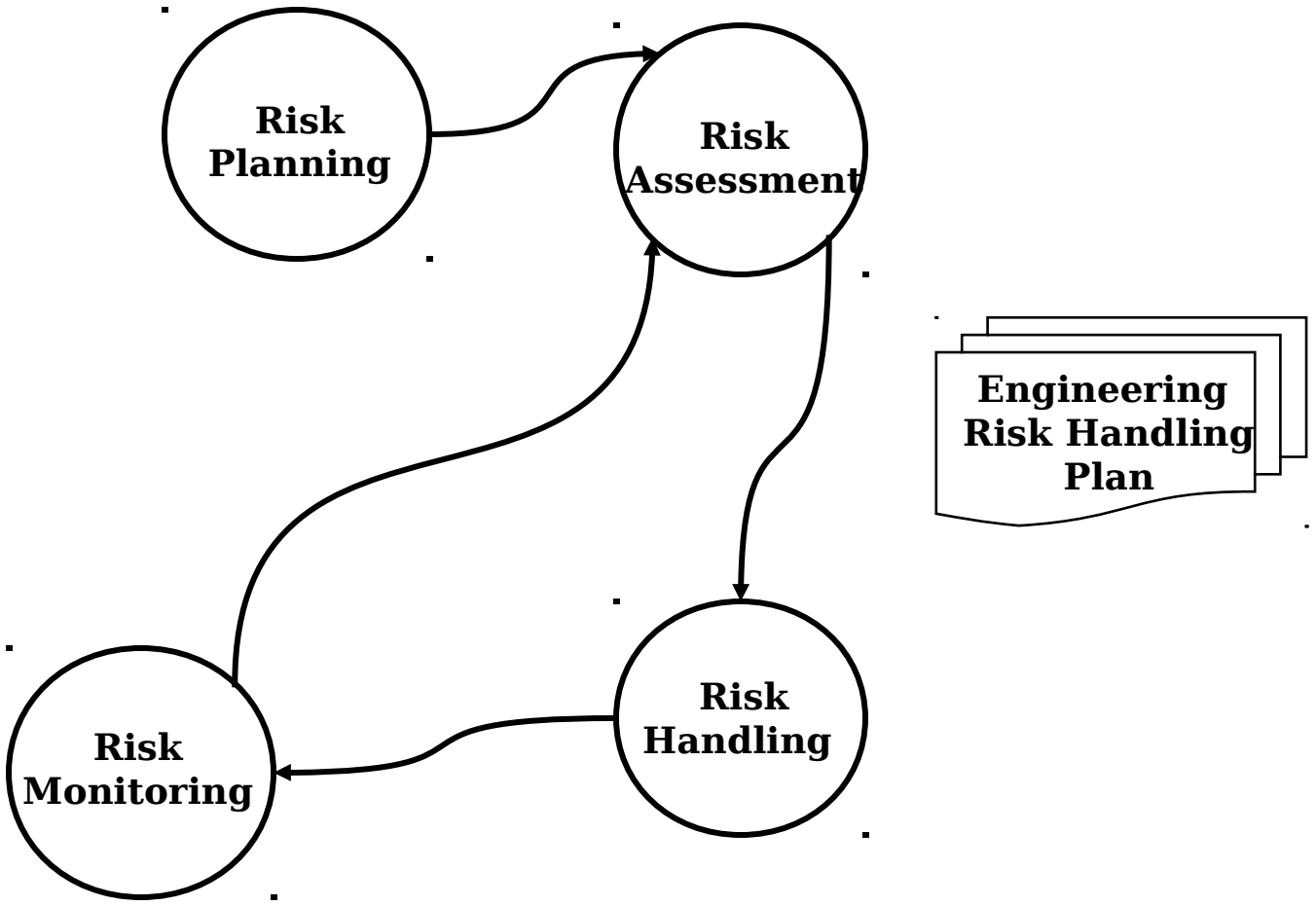
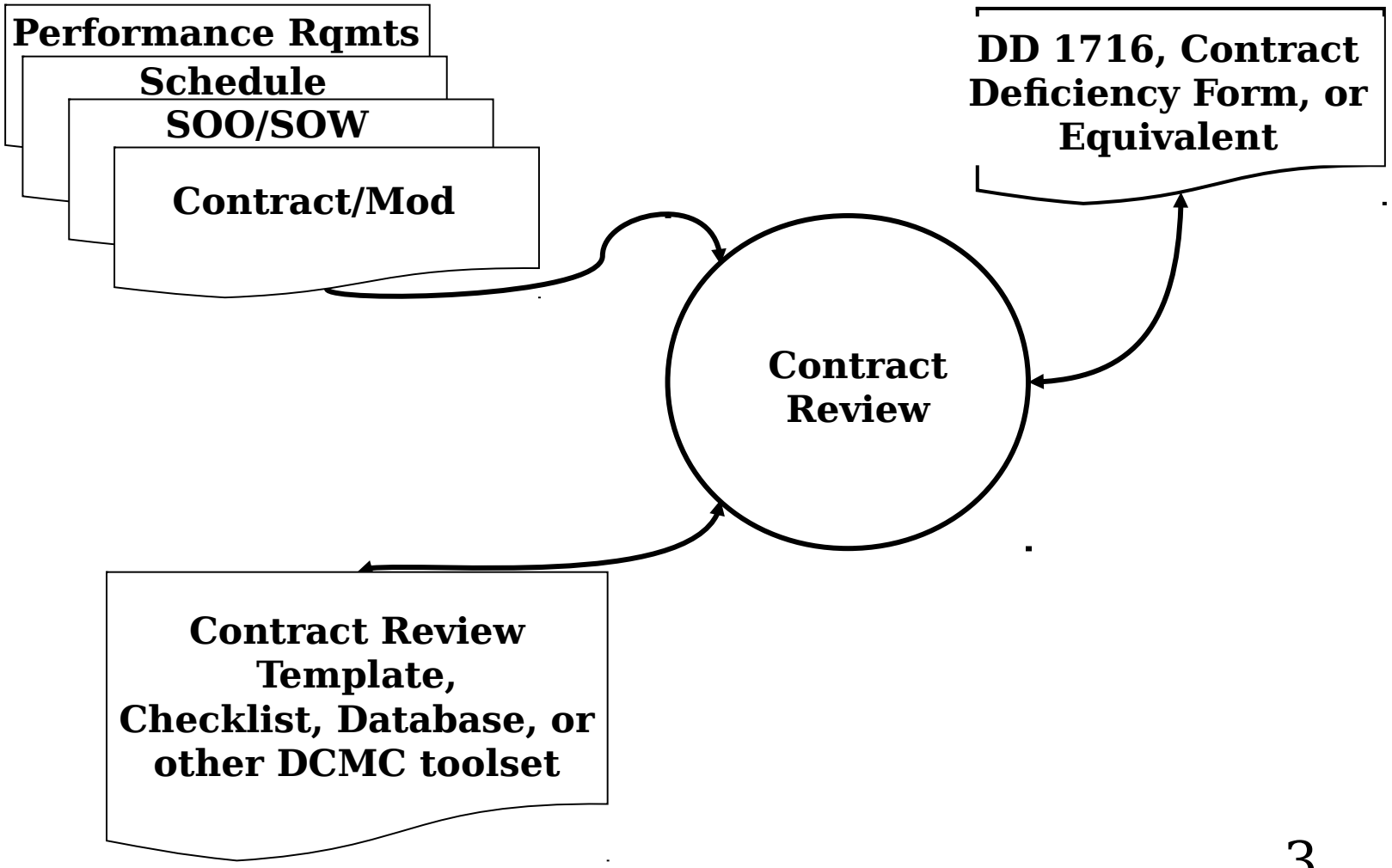
Putting It All Together

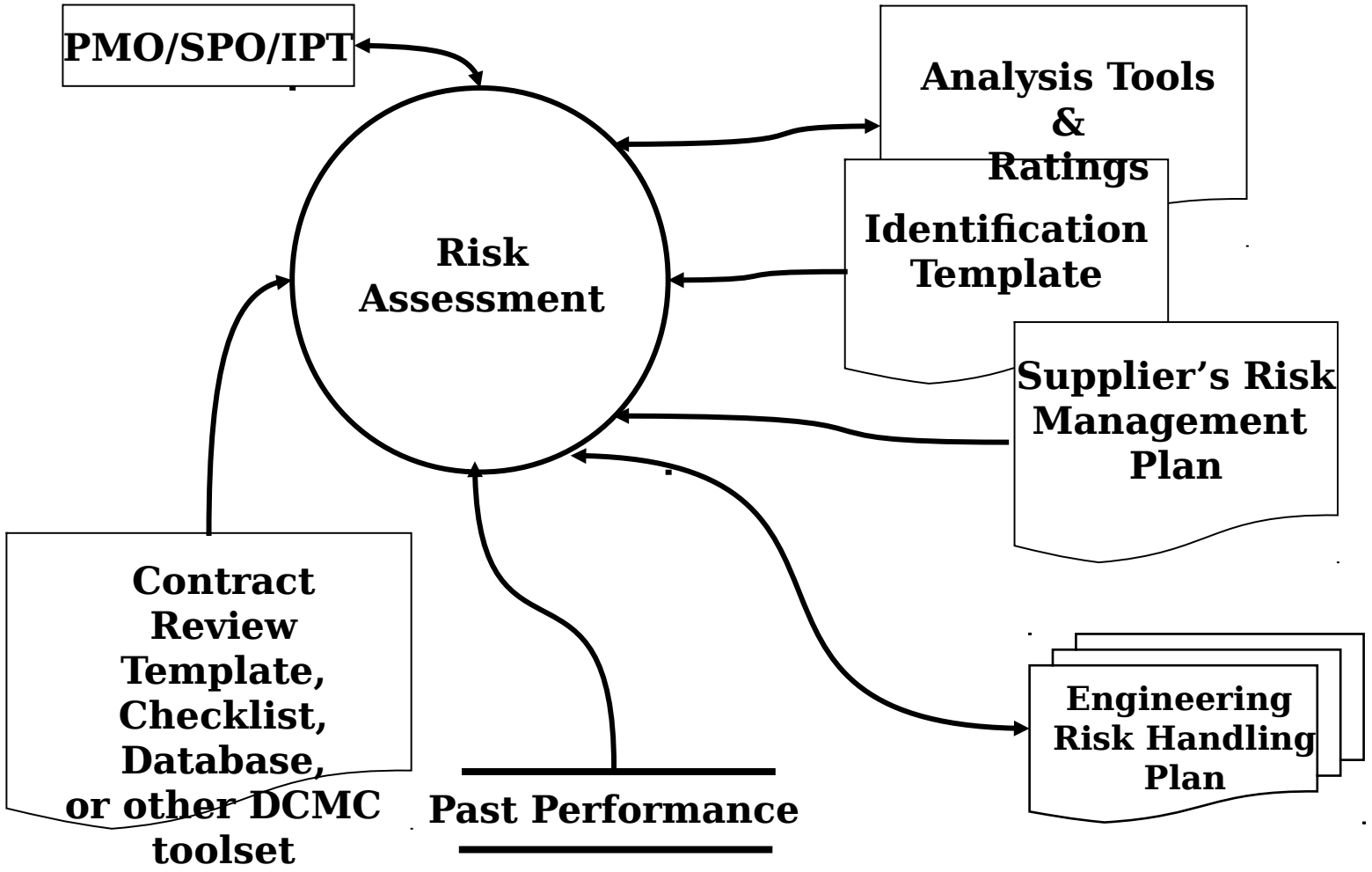
Engineering Surveillance Data Flow Diagram (Very Simplified)



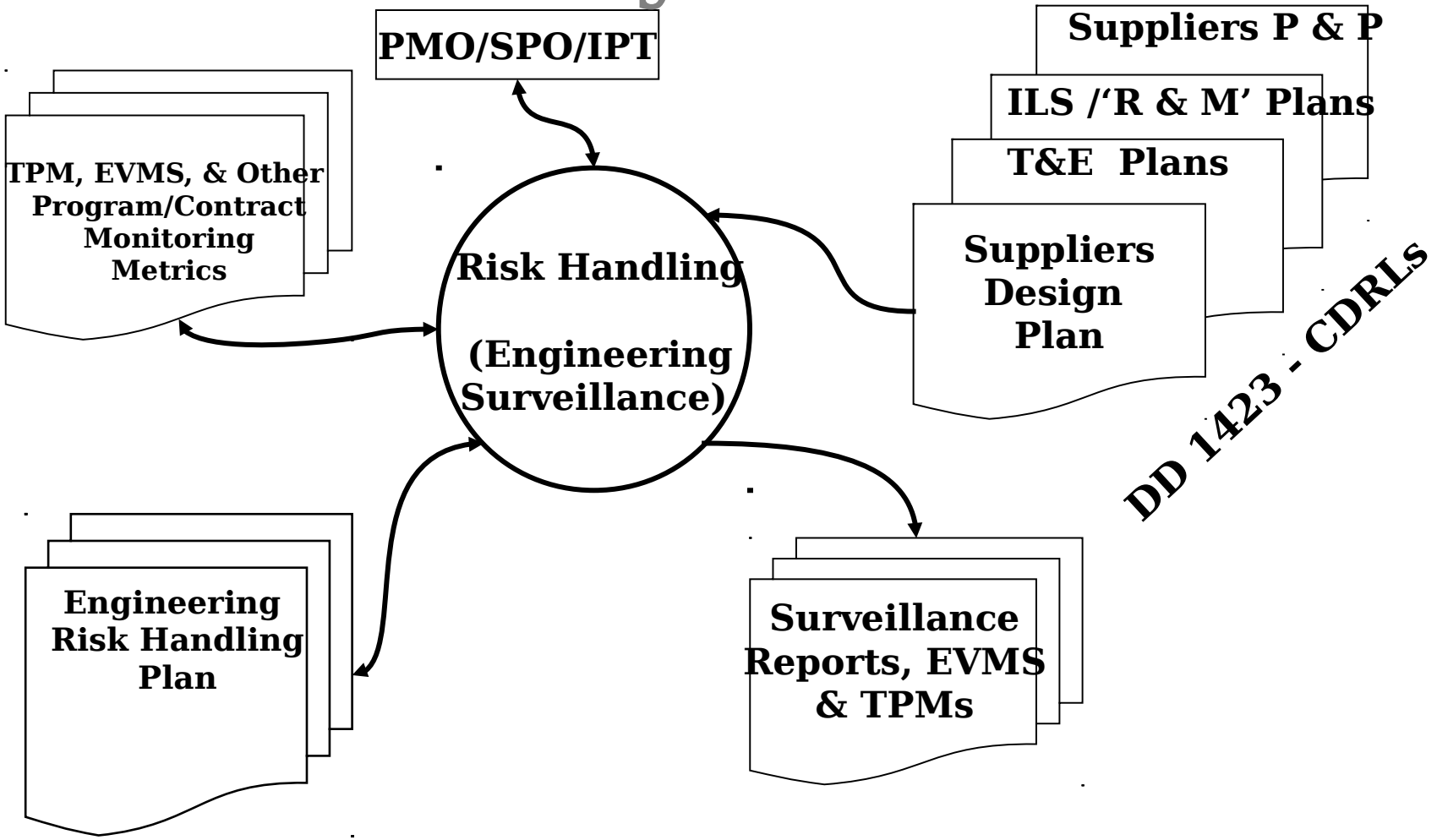
Risk Planning - DCMC Style



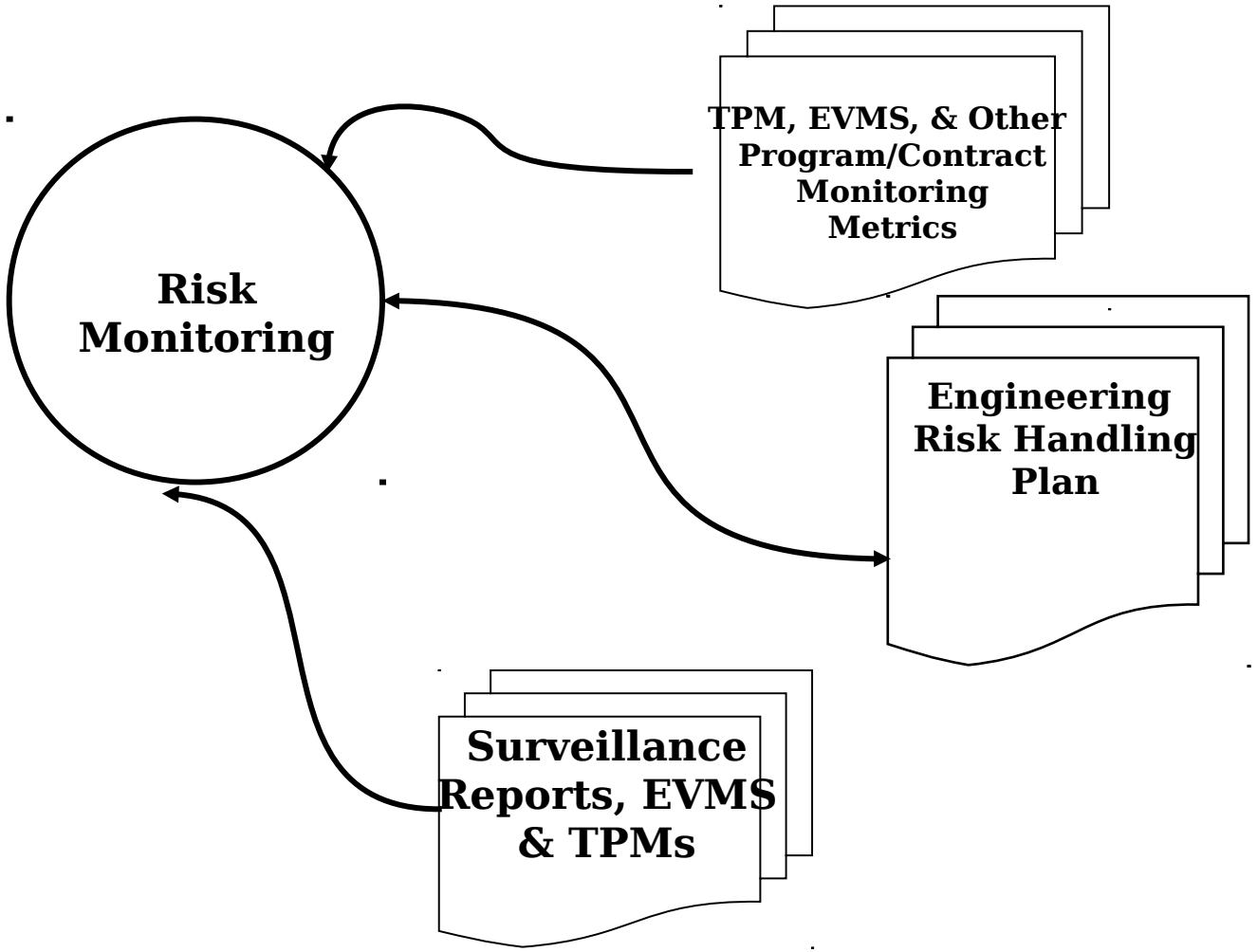
Risk Assessment - DCMC Style



Risk Handling - DCMC Style



Risk Monitoring - DCMC Style


TPM, EVMS, & Other Program/Contract Monitoring Metrics
Risk Monitoring
Engineering Risk Handling Plan
Surveillance Reports, EVMS & TPMs

Engineering Surveillance - Processes

INPUT(S)	PROCESS	OUTPUT(S)
Contract/Mod Completed Checklist SOO/SOW/CDRL Database Review Checklist	***Risk Planning***	or

INPUT(S)	PROCESS	OUTPUT(S)
Contract/Mod SOO/SOW/CDRL/etc PMO/SPO/IPT Interface Completed Review Form Risk Management Plan Risk Identification Template Risk Analysis Tool Past Performance History	***Risk Assessment***	Engineering Risk Handling Plan

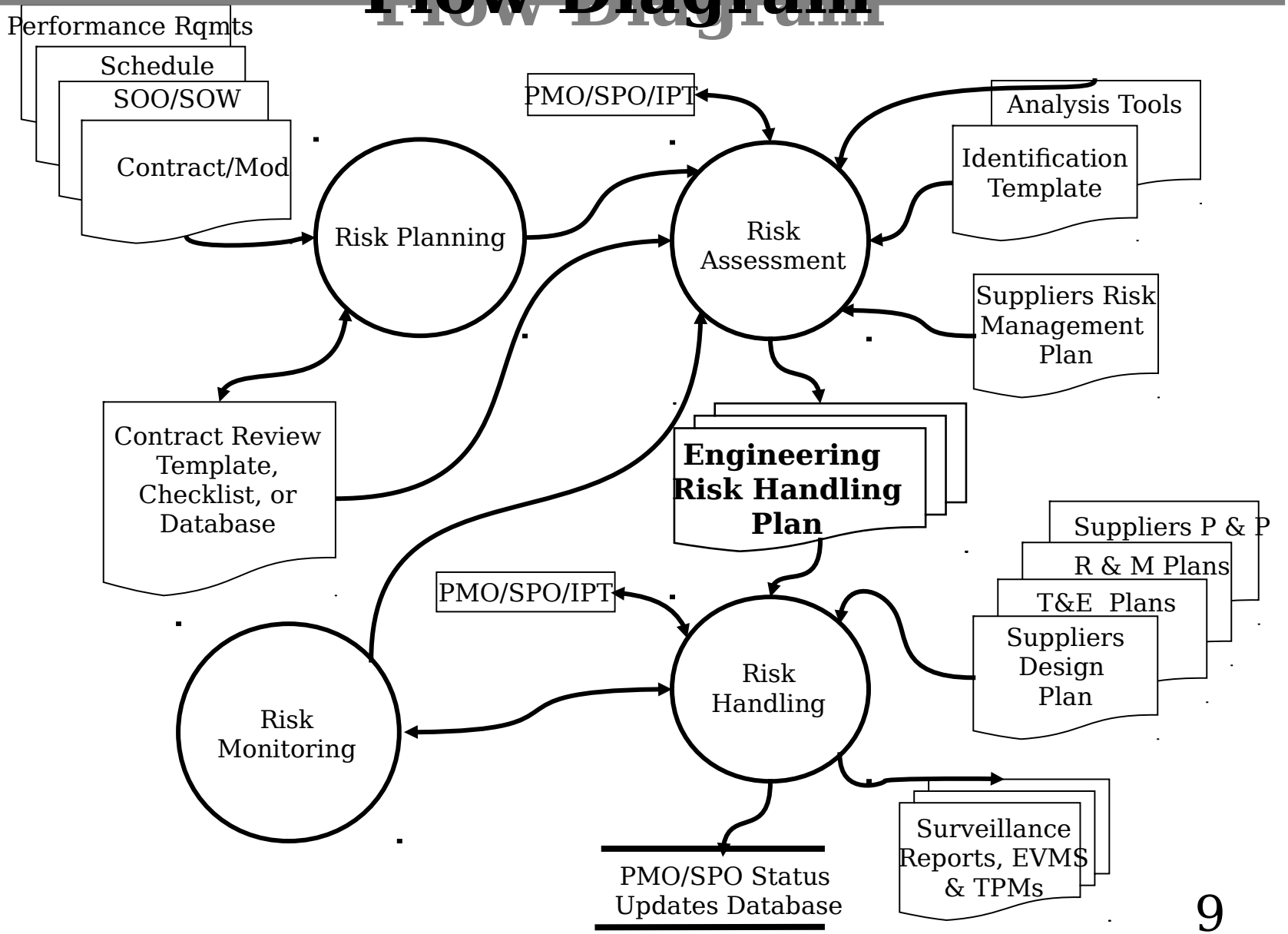
Engineering Surveillance - Processes

INPUT(S)	PROCESS	OUTPUT(S)
Risk-Based Engineering Surveillance Plan PMO/SPO/IPT Interface Design Plan, T&E Plan, R&M Plan, CM Plan, Etc. CDRL/EVMS Reports, Etc. Supplier's Policies & Procedures Capability Model(s) Surveillance Monitoring	***Risk Handling***	Engineering Surveillance Reports EVMS Status Reports PMO/SPO Status Updates TPM Tracking PMO/SPO/IPT Interface

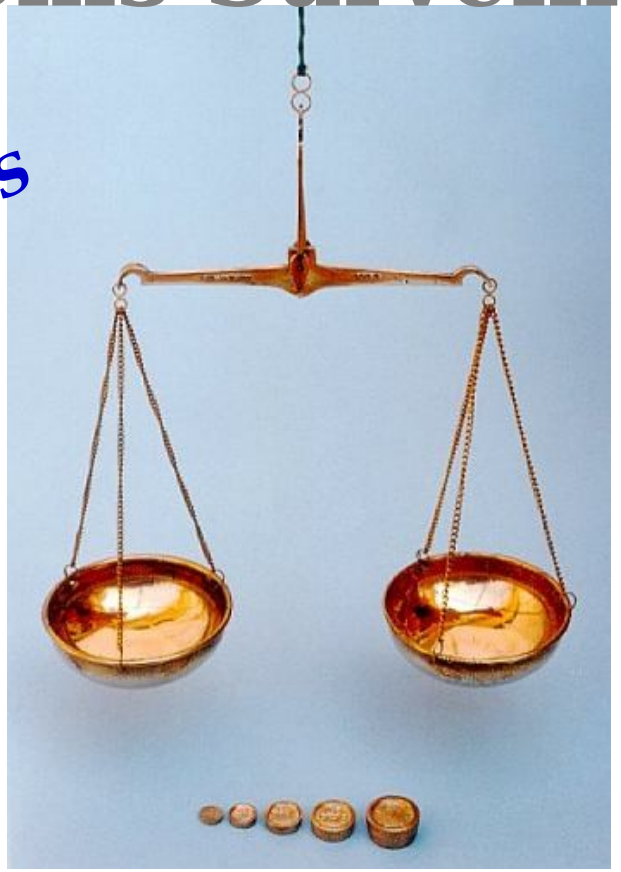
INPUT(S)	PROCESS	OUTPUT(S)
Risk Handling Outputs	***Risk Monitoring***	Updated Risk Handling Plan

Document ... Document ... Document

Engineering Surveillance Data Flow Diagram



Optimizing Contract & Engineering Systems Surveillance



CONTRACT UNIQUES
EVMS Analysis
MOA/LOD
TPM
PI Reports

SYSTEM AUDITS
SECM
ANSI/EIA 732
ISO 9001
EVMS

Crystal Ball
The Future of DCMC Engineering

Include Acquisition Rej
Initiatives within Engineering
Surveillance Strategy

Risk-based Engineering
Surveillance w/PMO & IP
Coordination (MOA)

Independent Verification o
Risk Assessments & Handli
Strategies by Contracto

Use of Systems Engineering
Capability/Maturity Models

Data Analysis & Metrics
e.g. TPM, EVMS

cumenting all Engineering
Surveillance Actions

"Value Added Support to External & Internal Customers"

Do Your Risk Handling (Surveillance) Plans Answer the Questions

Who ? {is doing the tasks}

What? { “risk handling” tasks will be done}

When? {the tasks are scheduled & completed}

How? {the tasks will be done}

Why? {relate to the risk assessment}